

WHAT IS CLAIMED IS

- 5
1. A liquid crystal display apparatus comprising:
- a liquid crystal panel having front and rear surfaces;
- 10 a printed circuit board for driving the liquid crystal panel; and
- an optical waveguide for illuminating the front surface of the liquid crystal panel, the optical waveguide including first and second planes,
- 15 and a thick side and a thin side, wherein the second plane is inclined with respect to the first plane;
- wherein the liquid crystal panel is inclined with respect to the first plane of the optical waveguide,
- 20 wherein the second plane of the optical waveguide faces the liquid crystal panel,
- wherein a space portion having a size based on the difference between the thickness of the thick side and the thin side is situated at the thin
- 25 side of the optical waveguide, and
- wherein at least a portion of the printed circuit board is disposed in the space portion.
- 30
2. The liquid crystal display apparatus as claimed in claim 1, wherein the liquid crystal panel is inclined with respect to the first plane of the optical waveguide at an angle that is no less
- 35 than 0.2 degrees and no more than 1.0 degrees.

3. The liquid crystal display apparatus
5 as claimed in claim 1, further comprising a flexible
substrate to which the liquid crystal panel and the
printed circuit board are connected, wherein the
flexible substrate is bent so that at least a
portion of the printed circuit board is disposed in
10 the space portion.

15 4. A liquid crystal display apparatus
comprising:

a liquid crystal panel having front and
rear surfaces;

20 an optical waveguide for illuminating the
front surface of the liquid crystal panel;

a first casing including a front panel
part and a depending part depending from the front
panel part, the front panel part being disposed
above the optical waveguide;

25 a second casing including a bottom panel
part and an upright part projecting upright from the
bottom panel part, the bottom panel part being
disposed below the reflective liquid crystal panel,
and the upright part being in cooperative engagement
30 with the depending part; and

a third casing disposed between the front
panel part and the bottom panel part and being in
cooperative engagement with the upright part to
restrict movement between the first and second
35 casings.

5. The liquid crystal apparatus as
claimed in claim 4, wherein the depending part has
5 an opening and the upright part includes a
protruding part that extends through the opening and
engages a wall of the opening, and wherein the third
casing includes a claw part in abutting relation
with the protruding part to restrict movement
10 between the first and second casings.